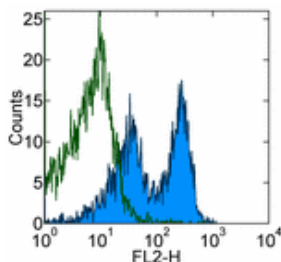


Anti-Mouse CD150 Purified

Catalog Number: 14-1501

Also Known As: SLAM, IPO-3, IPO3, SLAMF1

RUO: For Research Use Only



Staining of C57BL/6 splenocytes with 0.5 µg of Rat IgG1 κ Isotype Control Purified (cat. 14-4301) (open histogram) or 0.5 µg of Anti-Mouse CD150 Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD150 Purified

REF Catalog Number: 14-1501

Clone: 9D1

Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The 9D1 monoclonal antibody reacts with mouse CD150, an ~70 kDa transmembrane glycoprotein also known as Signaling Lymphocyte Activation Molecule (SLAM). CD150 is expressed by T (especially TH1) and B cells and its expression is rapidly upregulated on these cells upon activation. Immature thymocytes and dendritic cells also express this antigen. Signaling through SLAM in T cells induces proliferation and augmentation of the interferon-gamma response. Furthermore, SLAM is thought to play a role in adhesion between the T cell and antigen-presenting cell. 9D1 is reported to be an activating antibody.

Mouse hematopoietic stem cells (HSC) can be identified using SLAM family markers, such as CD150+CD244-CD48-. For this application we recommend the use of antibody clone mShad150 (cat. 12-1502).

Applications Reported

This 9D1 antibody has been reported for use in flow cytometric analysis. (Please use Functional Grade 9D1 (cat. 16-1501) in functional assays.)

Applications Tested

This 9D1 antibody has been tested by flow cytometric analysis of mouse thymic and splenic cell suspensions. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Howie D, Okamoto S, Rietdijk S, Clarke K, Wang N, Gullo C, Bruggeman JP, Manning S, Coyle AJ, Greenfield E, Kuchroo V, Terhorst C. 2002. The role of SAP in murine CD150 (SLAM)-mediated T-cell proliferation and interferon gamma production. *Blood*. 100(8): 2899-907. (9D1, FC, FA, PubMed)

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-0481 Anti-Mouse CD48 Biotin (HM48-1)

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4301 Rat IgG1 K Isotype Control Purified

17-4317 Streptavidin APC

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